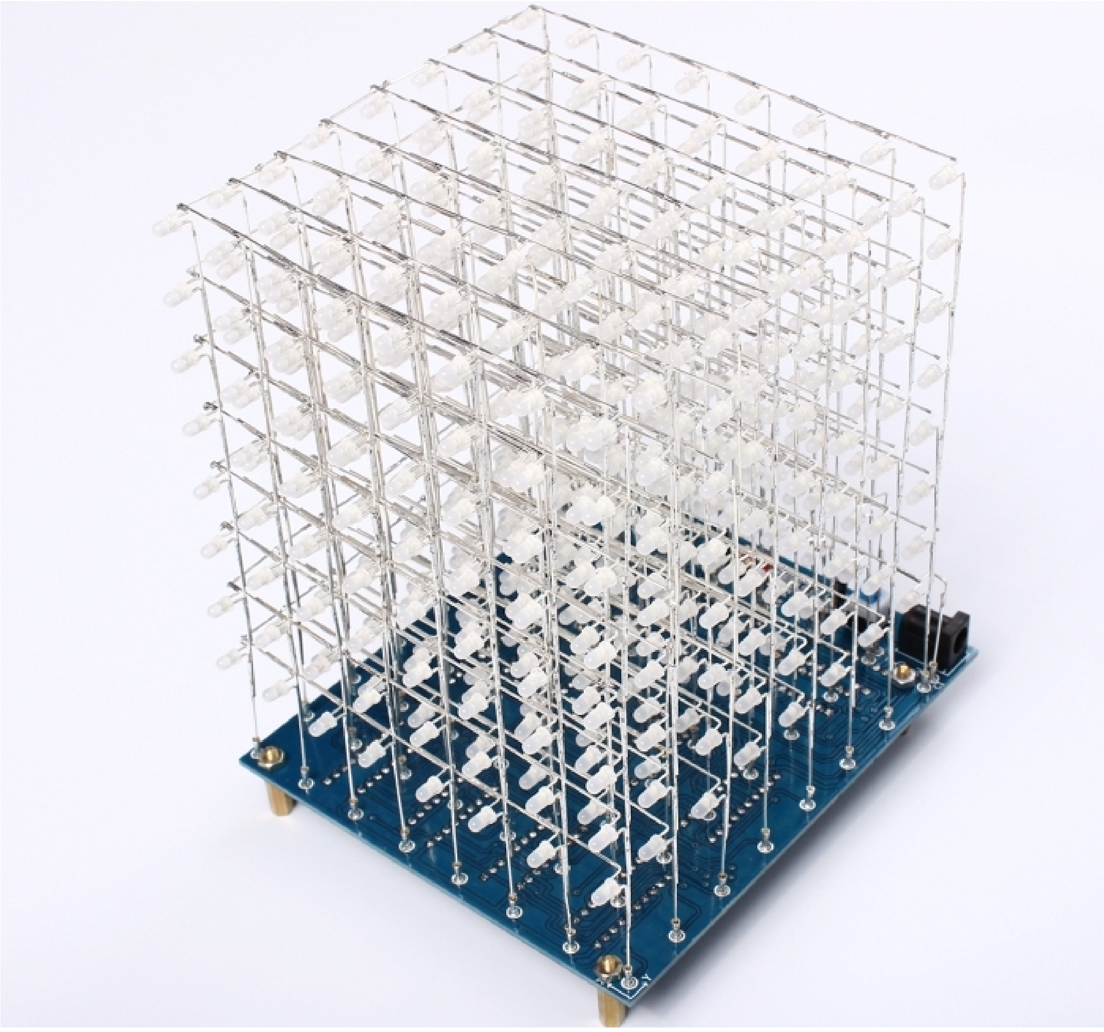
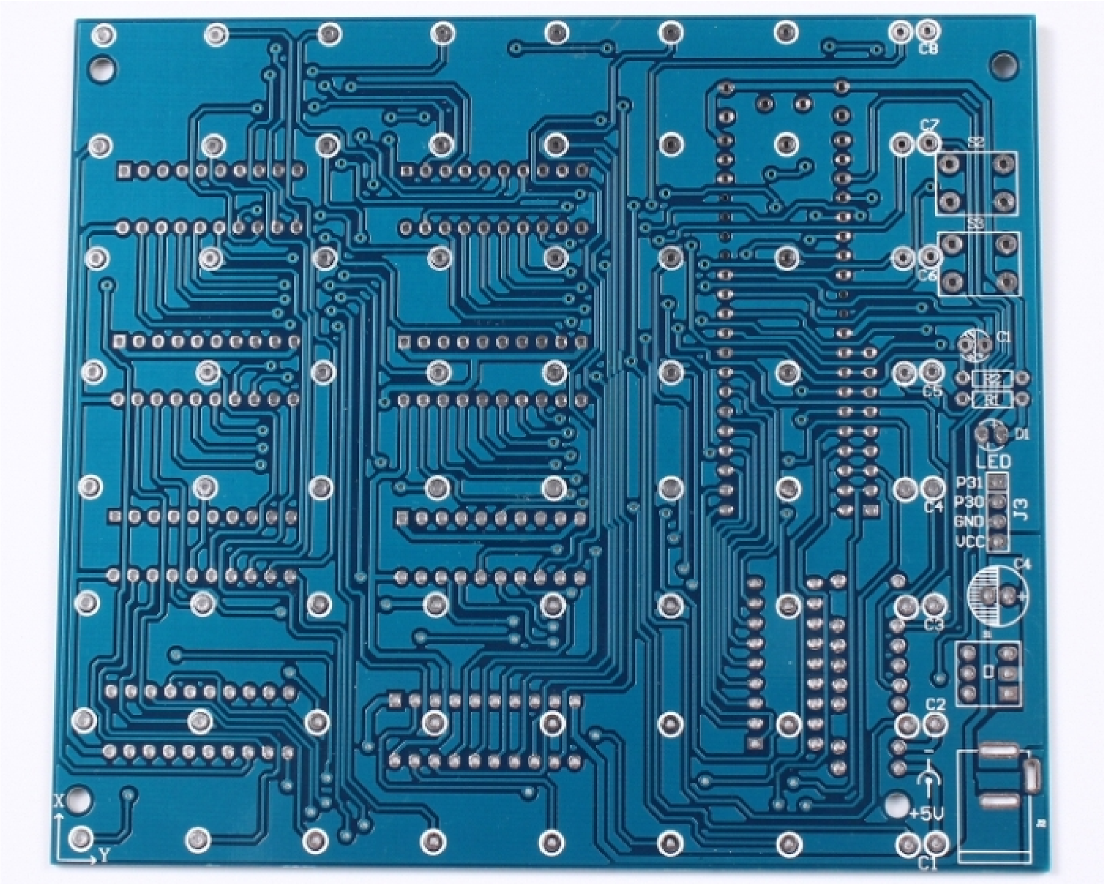
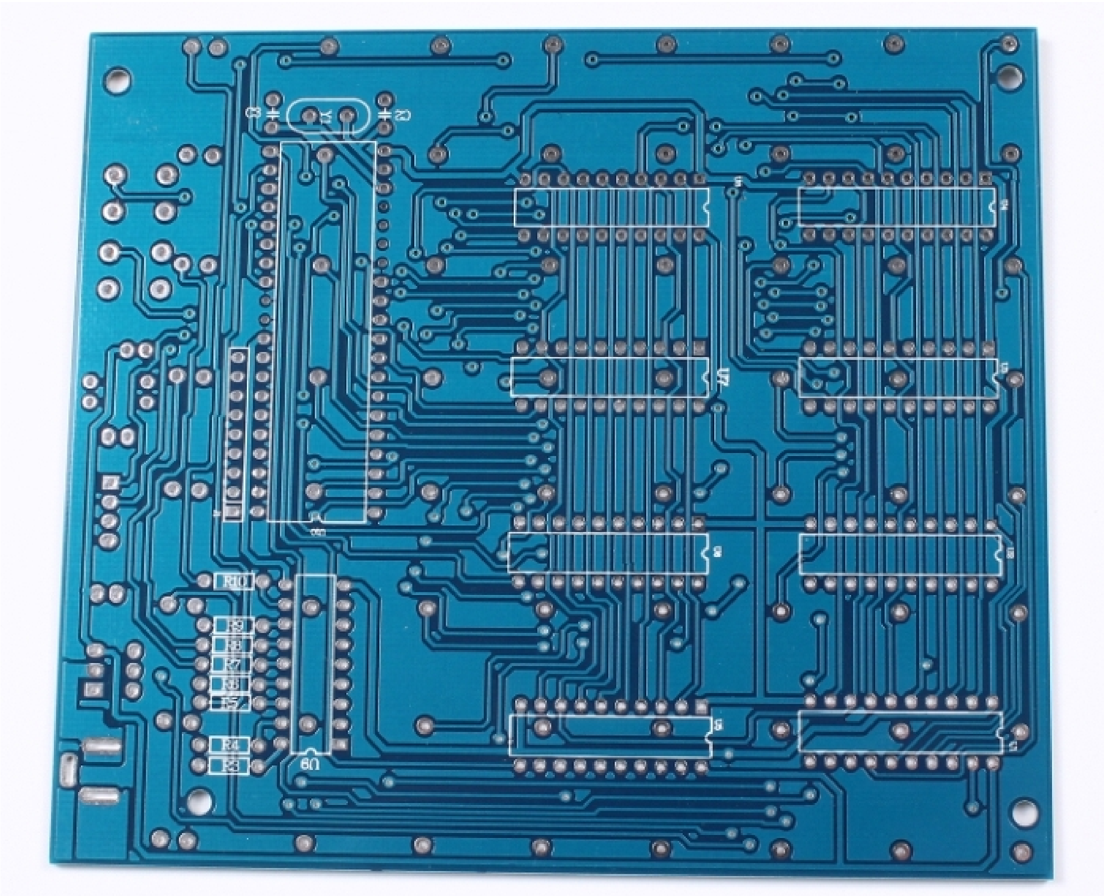
3D8 Red 8*8*8 LED Cube DIY Kit

You can enjoy the LED cube of after the installation at first.




LED LAMPS
QC:
PASS





OK. Let's begin to install it.

Step 1: Take out 2pcs round female pin as picture. And you should prepare a pliers to break female pin as following picture.

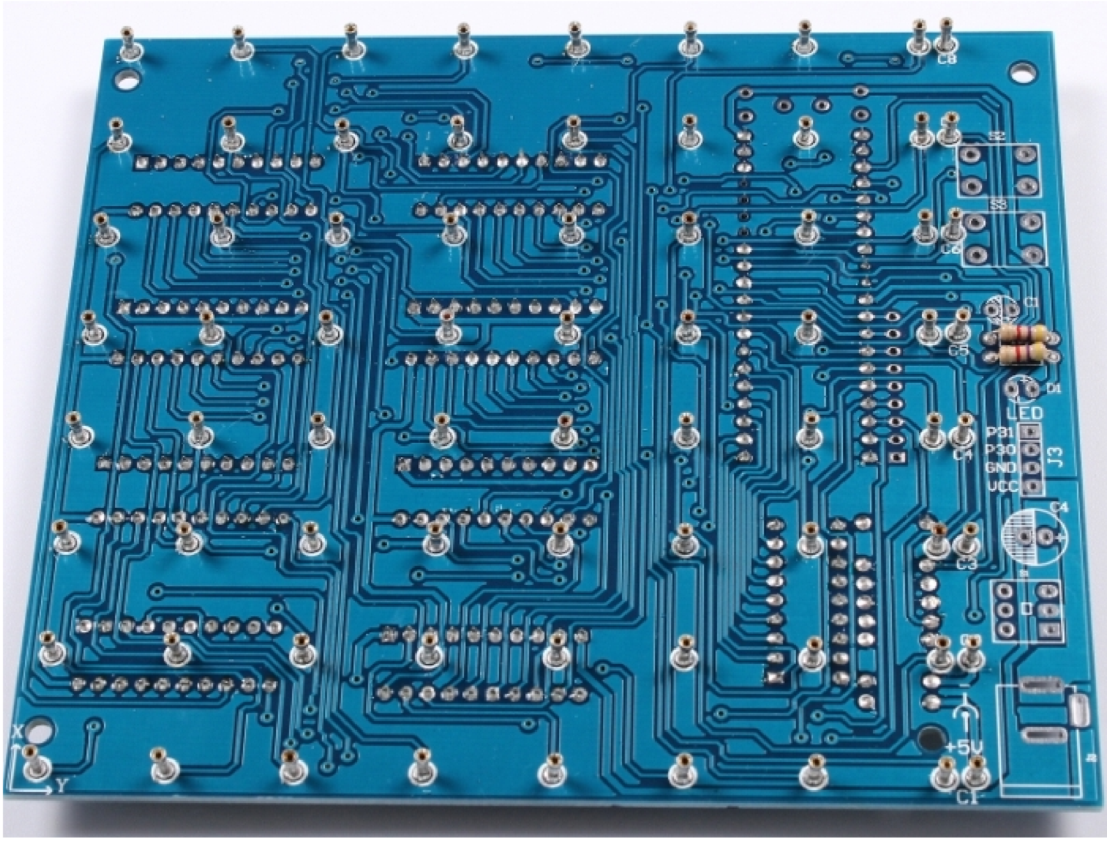




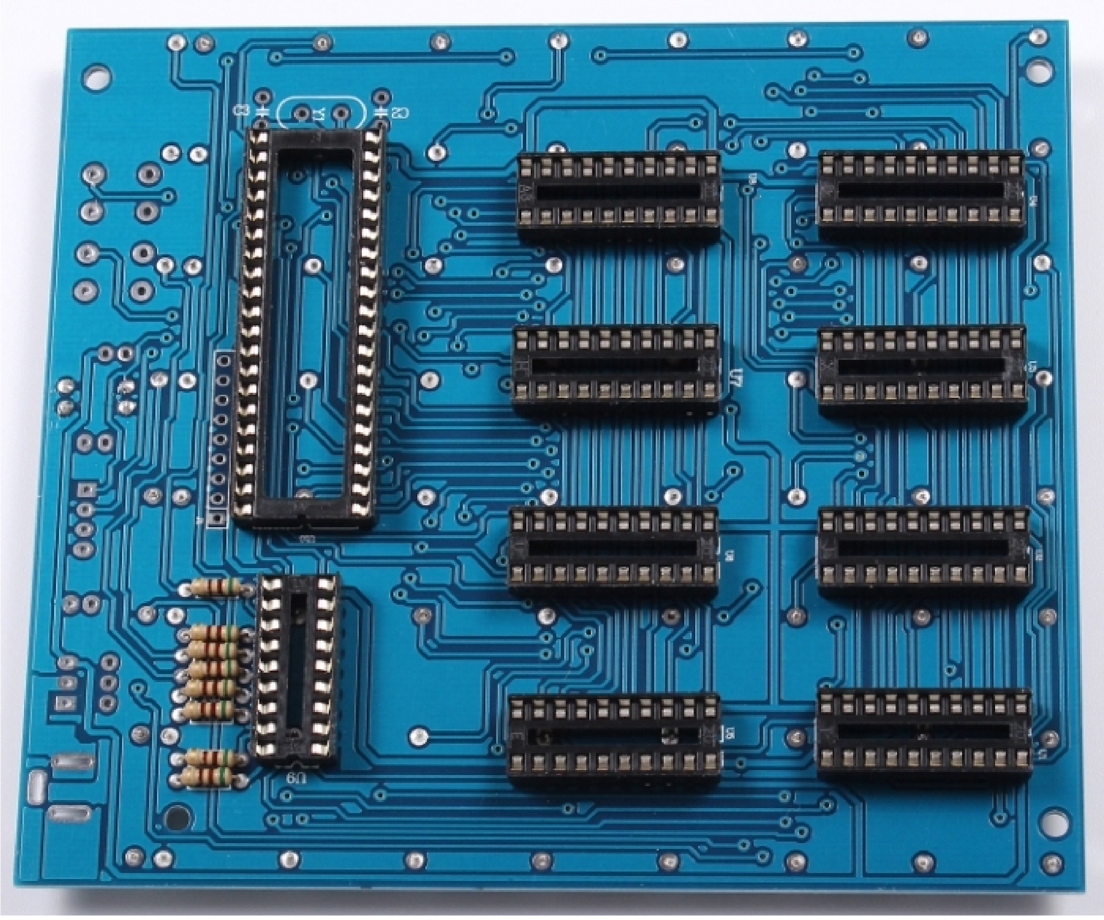
Step 2: Peel the plastic housing. Now we will get 80pcs metal pin. But we just need 72pcs.



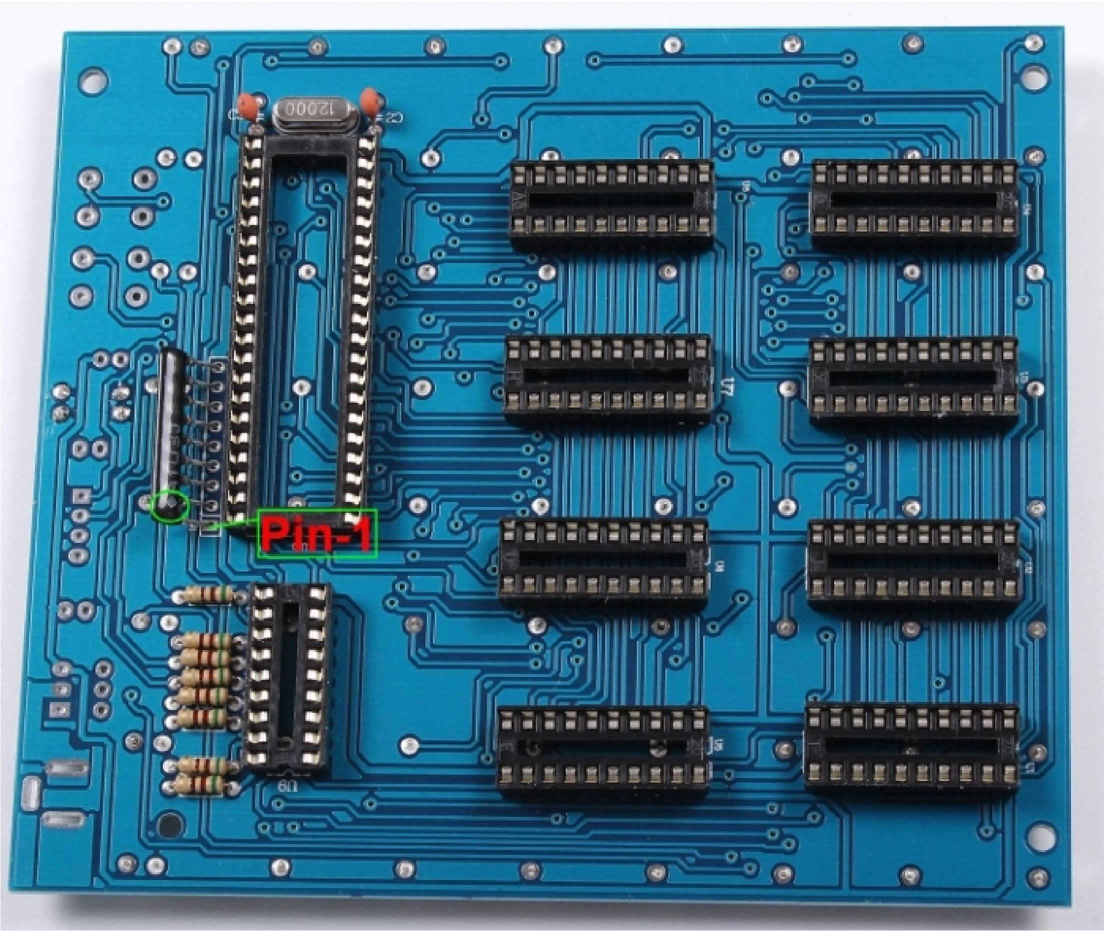
Step 3: Weld these metal pin on PCB. Please keep it perpendicular to the PCB circuit board. And then weld resistors.



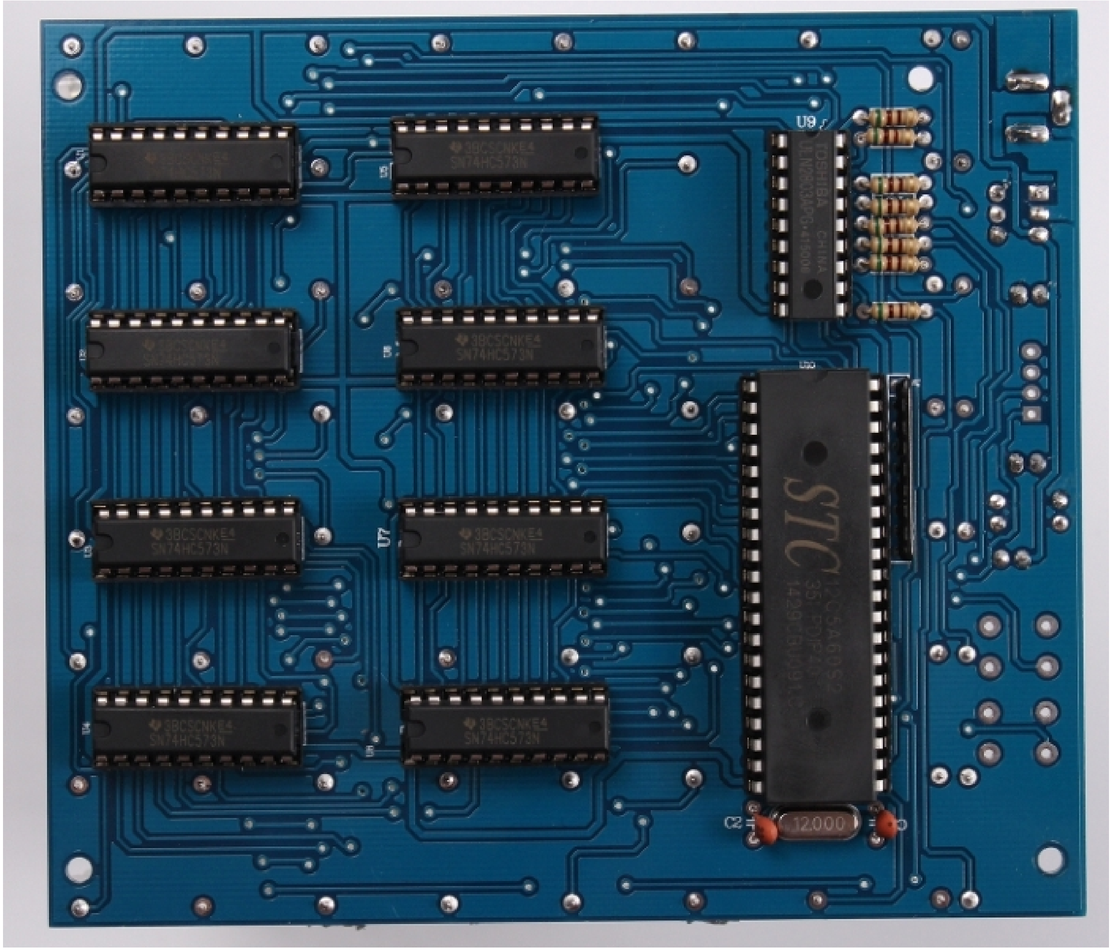
Step 4: Weld IC socket.



Step 5: Please pay an attention to the PIN-1 of A09-103 resistor. Then weld crystal and ceramic capacitors.



Step 6: Weld other components except LED and install ICs.

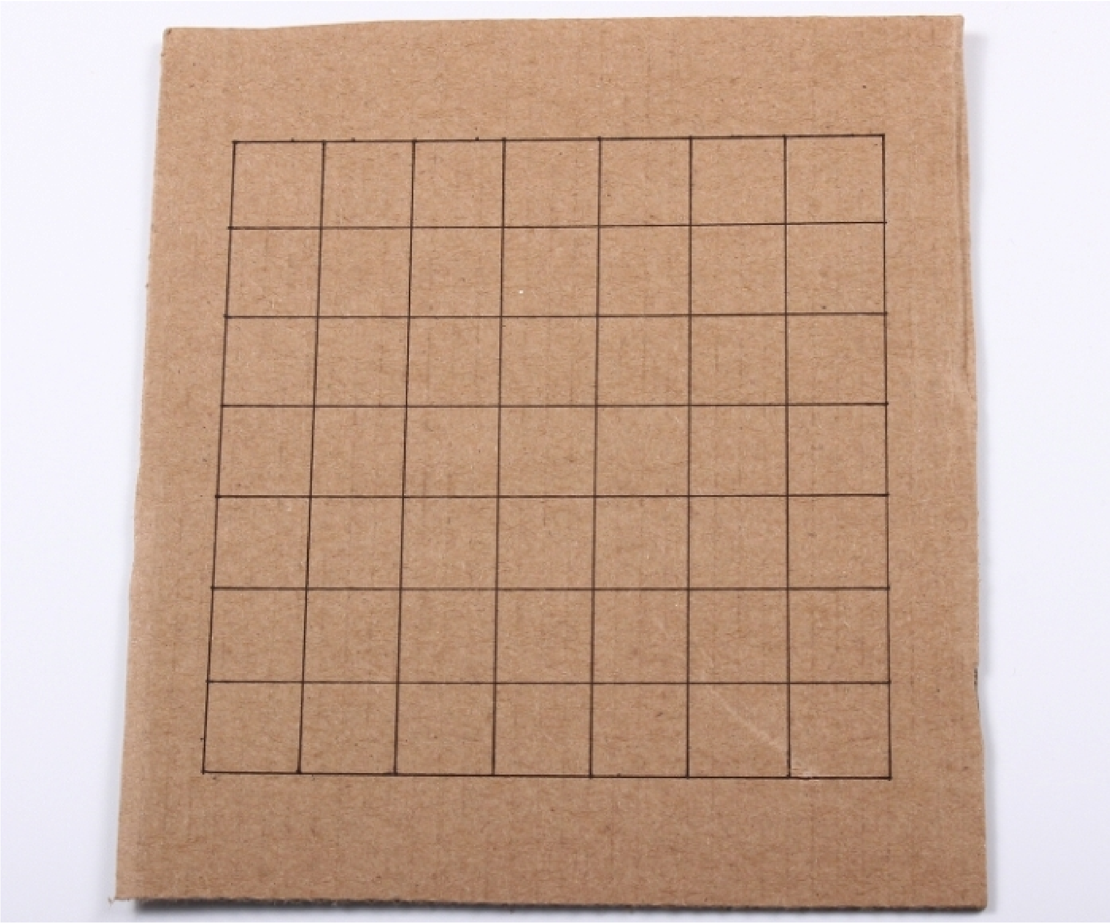


Step 7: Now we begin to weld LED. But there is some thing we should know before weld.

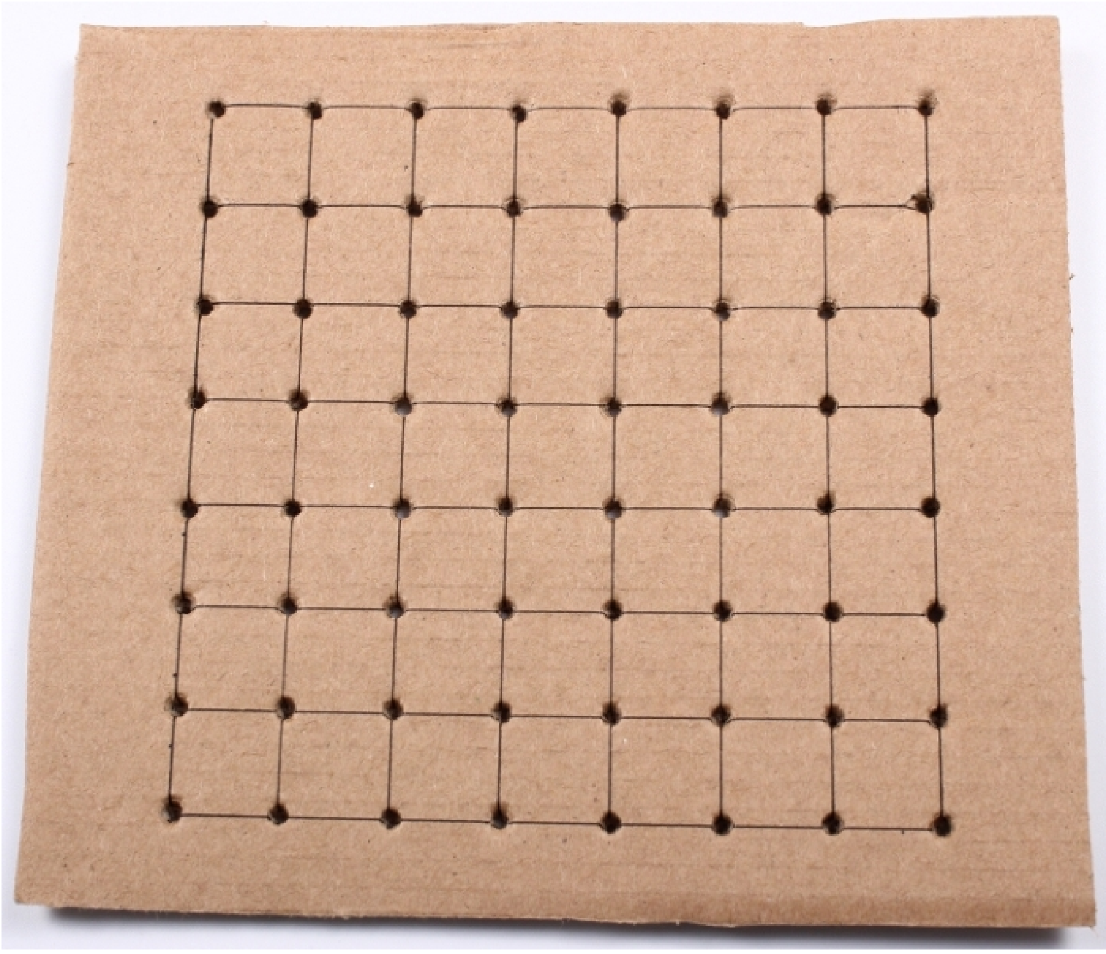
1>.The space between two neighboring LED is 1.5cm.

2>.Prepare a cardboard or thin wooden board, thin plastic plates, Acrylic board if you have drill. We will use a cardboard in installation manual.

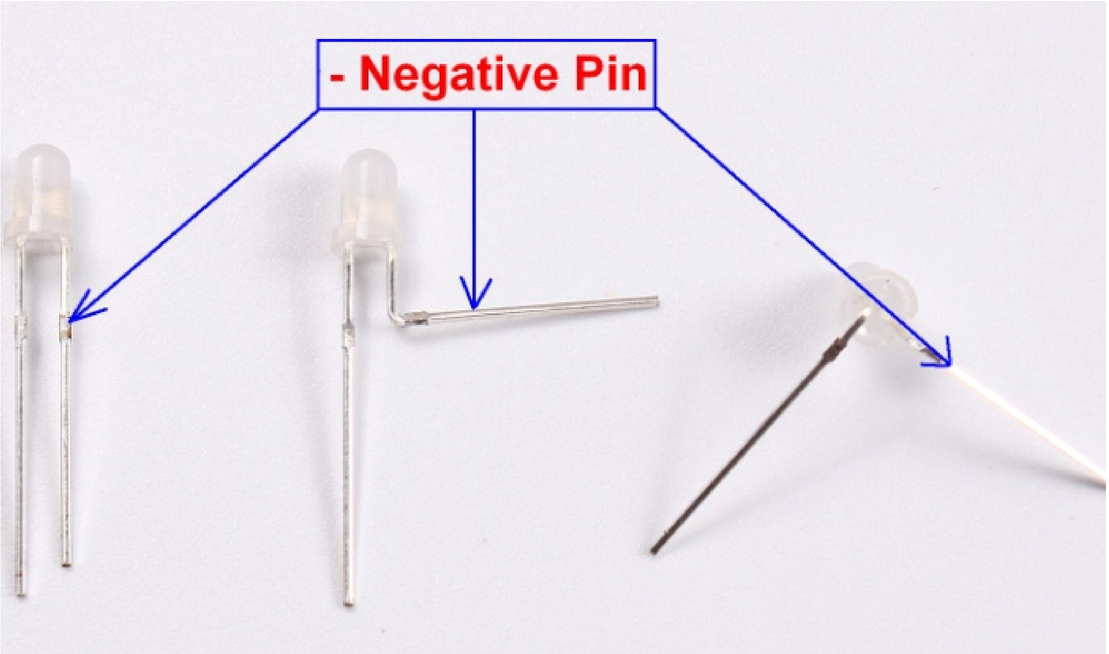
3>.Draw a 8x8 table in cardboard.



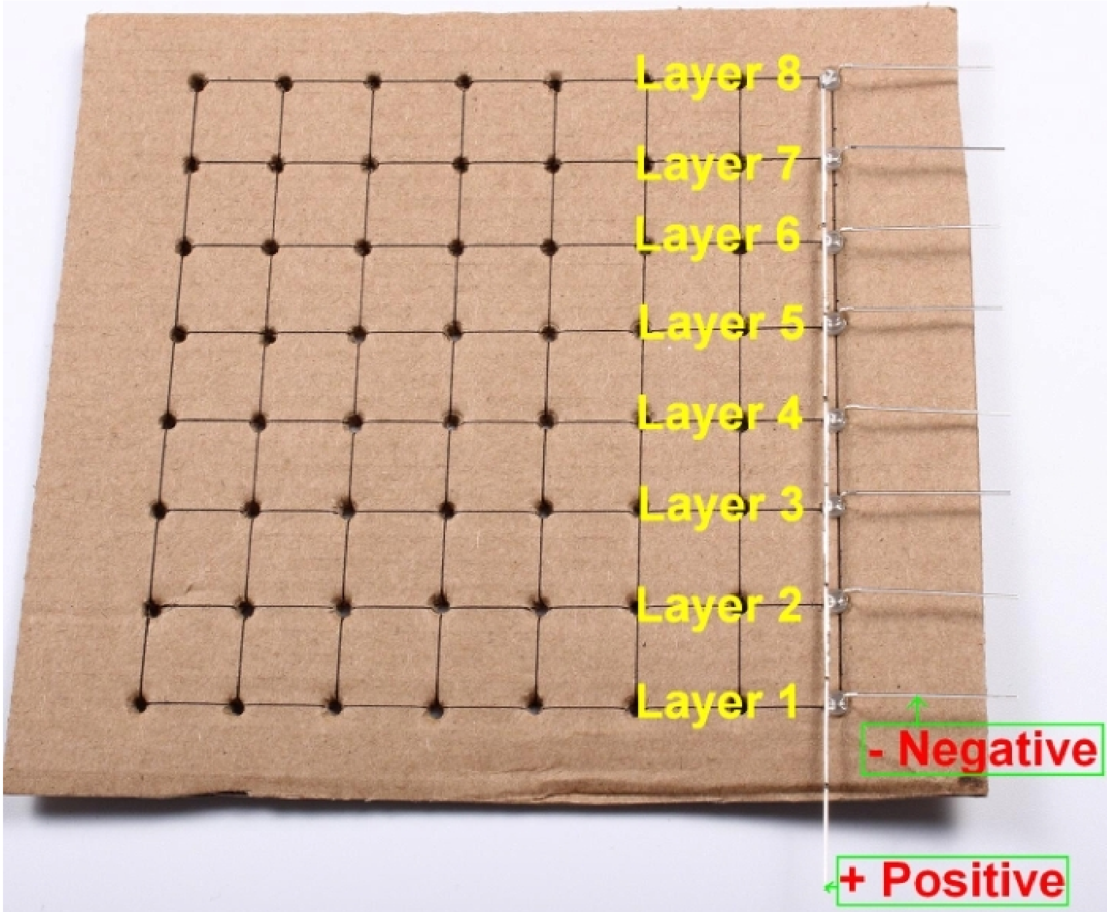
Step 8: Drilling. You can drill a relatively small hole by abandoned pen. And then make hole bigger by 3mm LED. There is some small drawback on this way. As you can see it on picture, holes are not strictly on a same straight line. The effect you can see pictures in this manual.

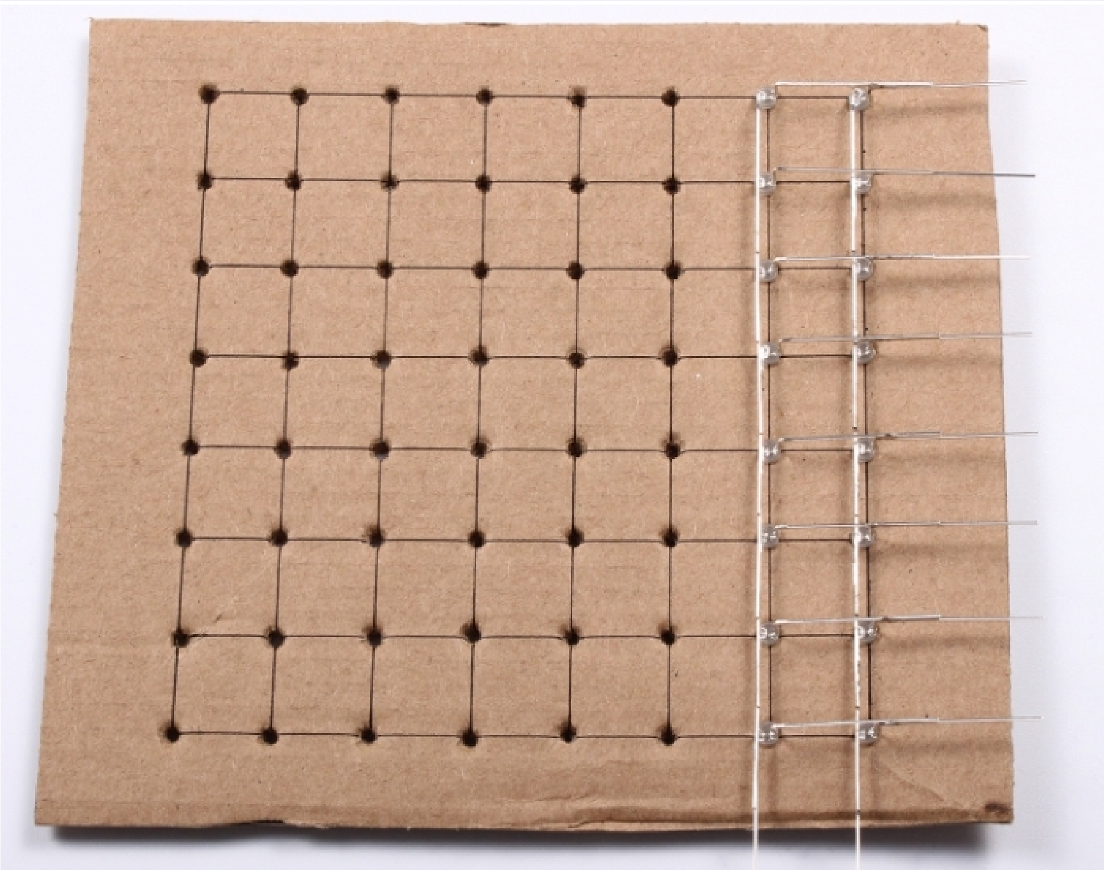


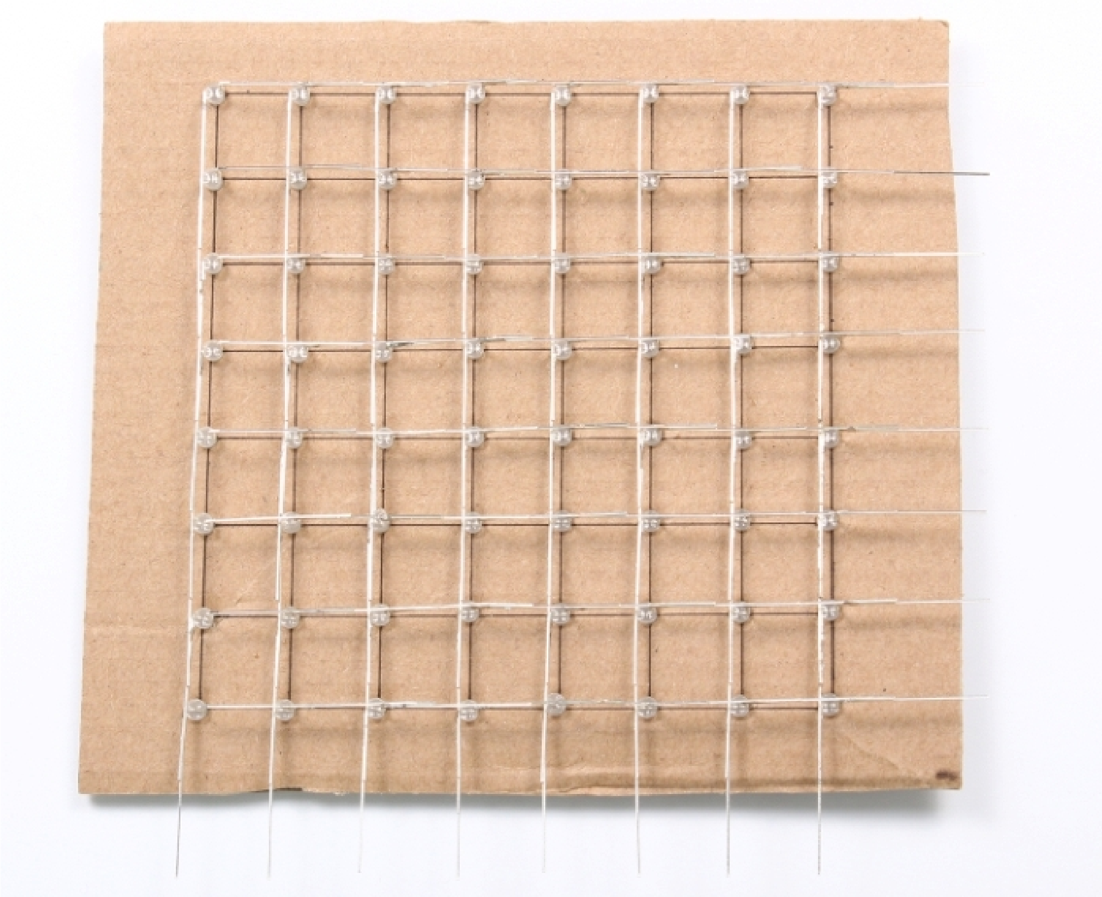
Step 9: Bent LED pins. You can use needle nose pliers. The bending point should keep a distance of more than 2mm to colloidal. As picture, bending point of negative pin is farther than the positive pin ones. They distance is 2mm too. In the same place the number of folds can not exceed three times

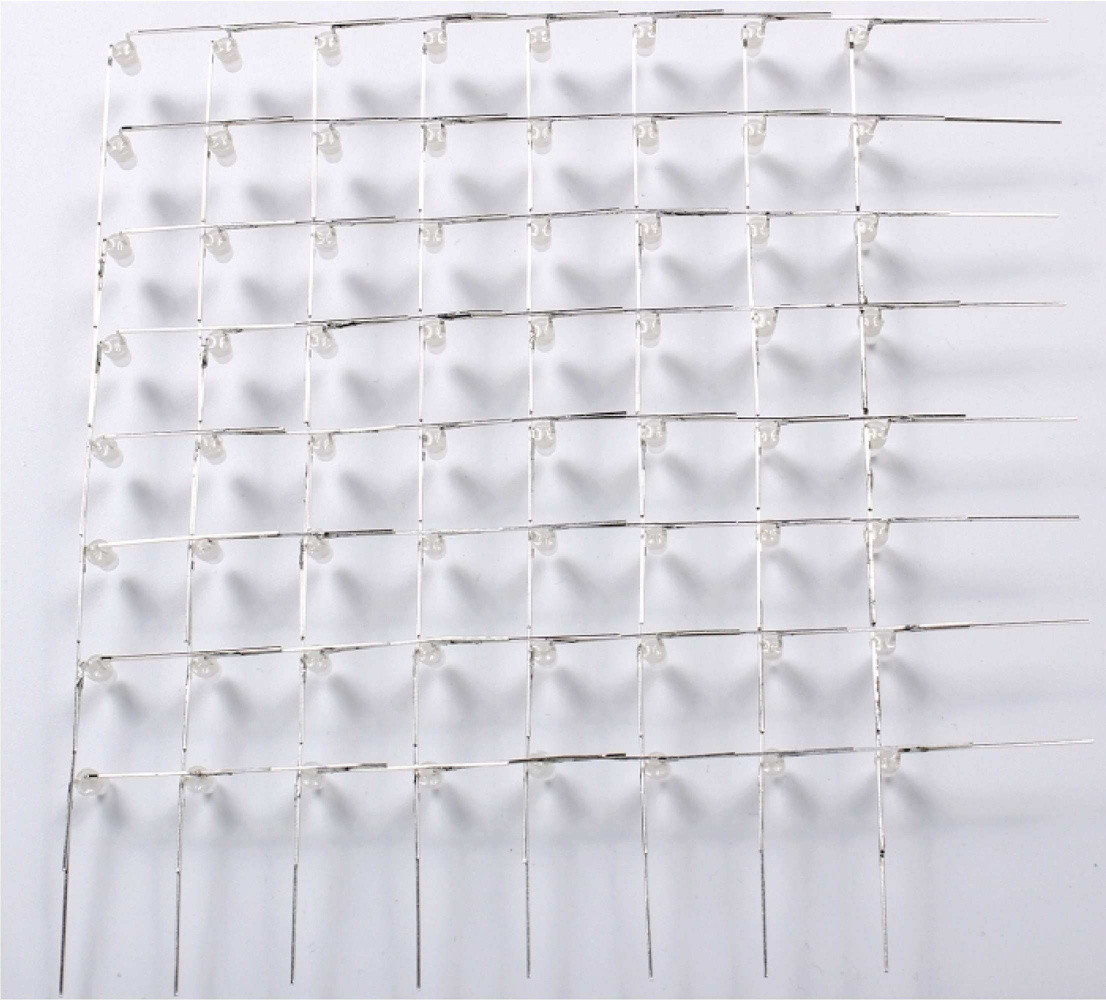


Step 10: After deal with LED, we can weld LED. 3D8 LED cube is divided into 8 faces. It has 8*8=64pcs LED on each face. Then weld negative pole form same layer after weld 8 faces. Layer 1~8 connect to C1~8 on PCB in turn.


Layer 8
Layer 7
Layer 6
Layer 5
Layer 4
Layer 3
Layer 2
Layer 1
- Negative
+ Positive



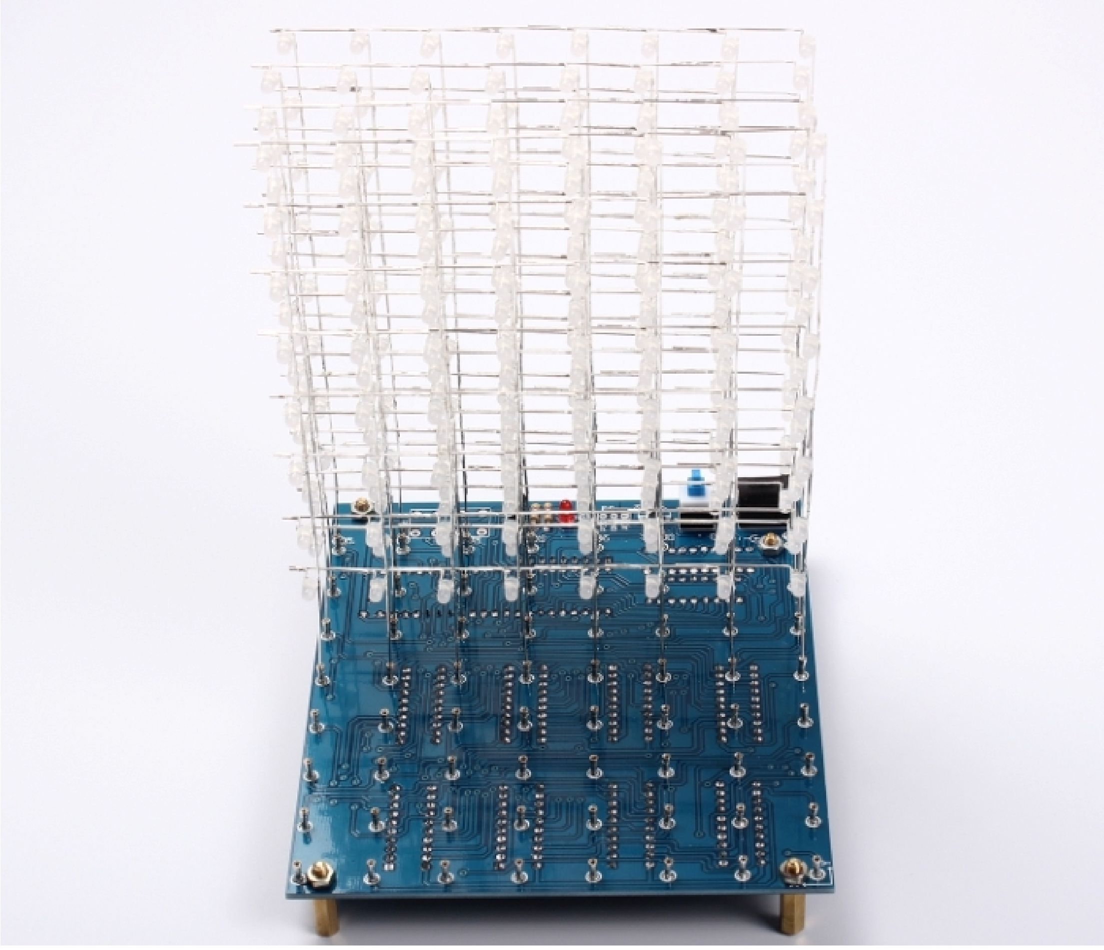




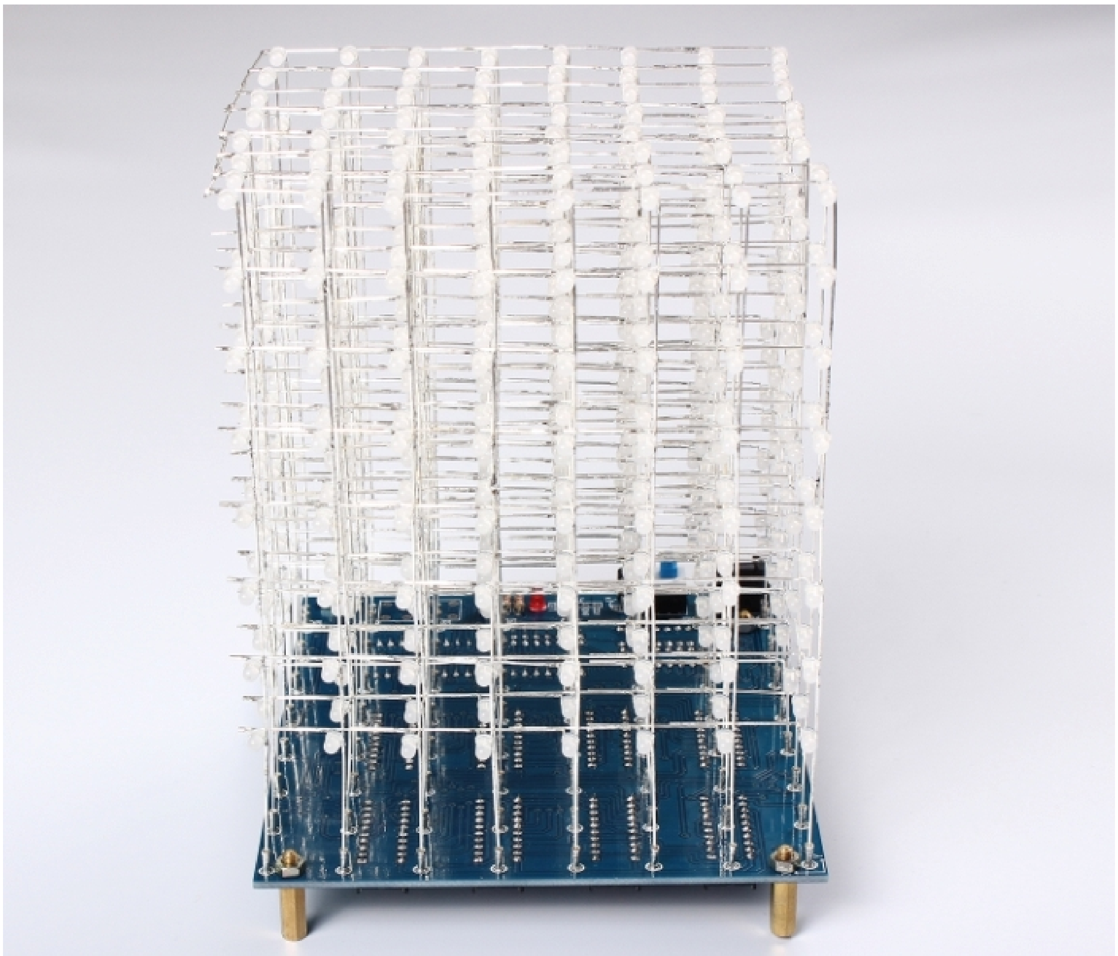
Step 11: Don’t forget test LED during weld. It is very important. It is good before weld but some LED will be damaged after weld. So you should make sure each one LED is good before installation.

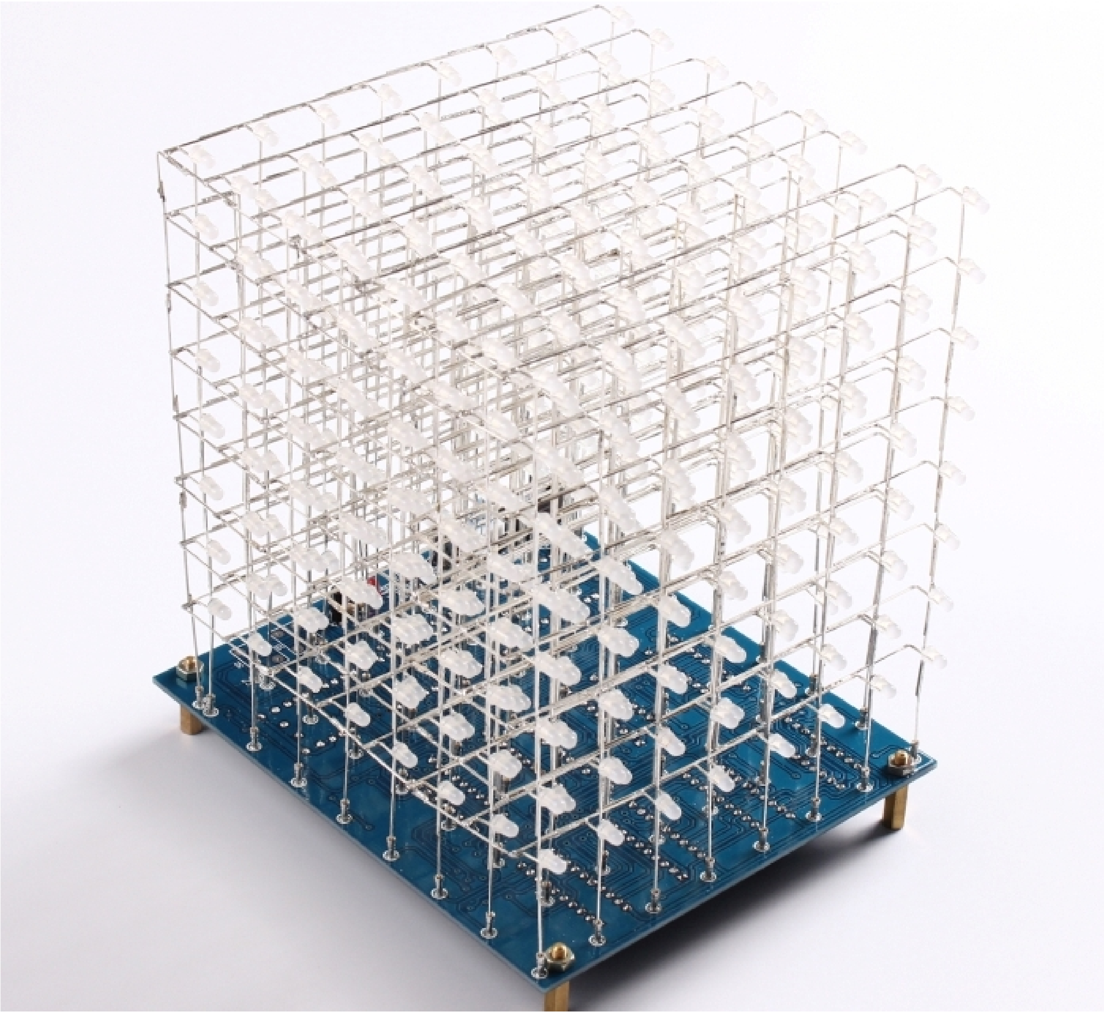
Step 12: Install each face to PCB. We have cut negative pin on each face in this manual. But you can bend it too.

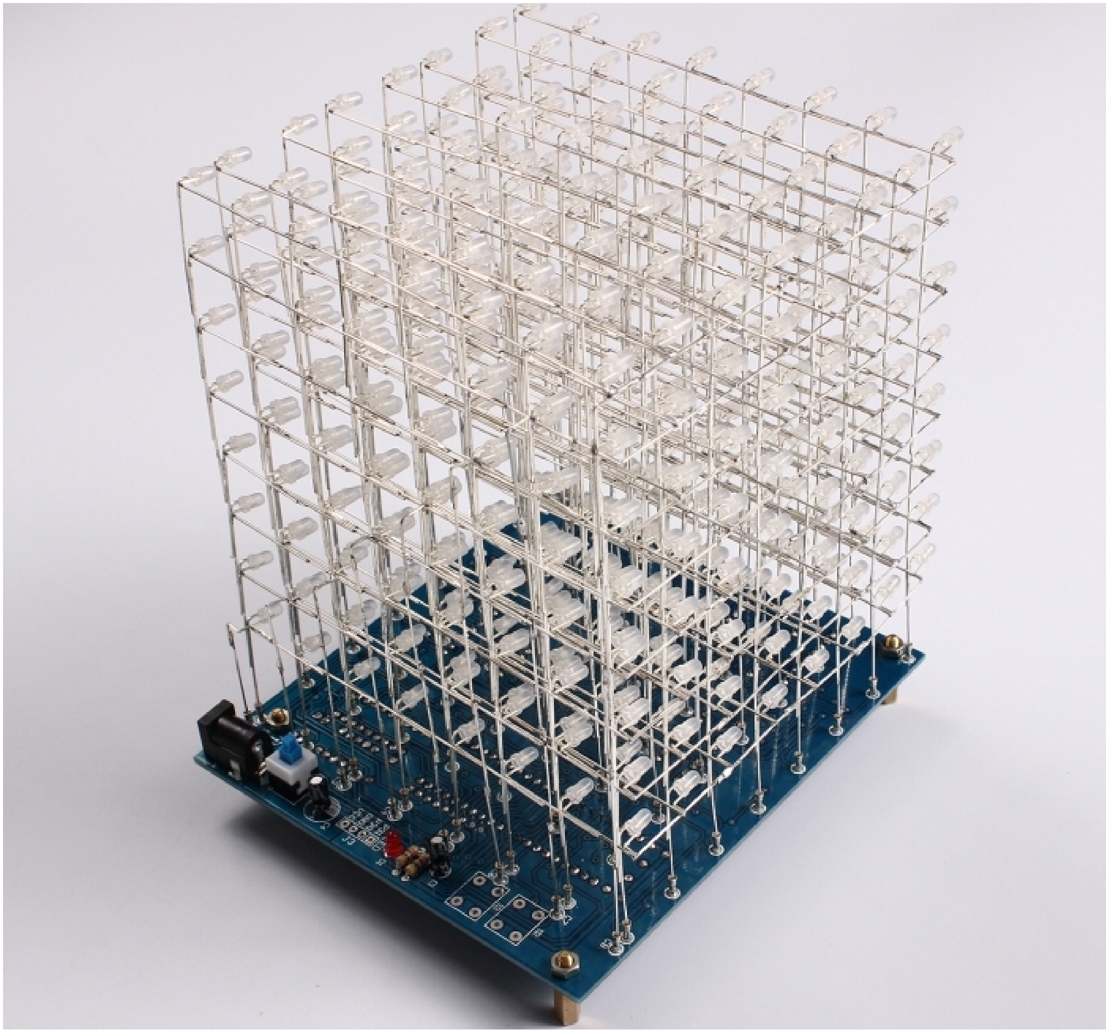




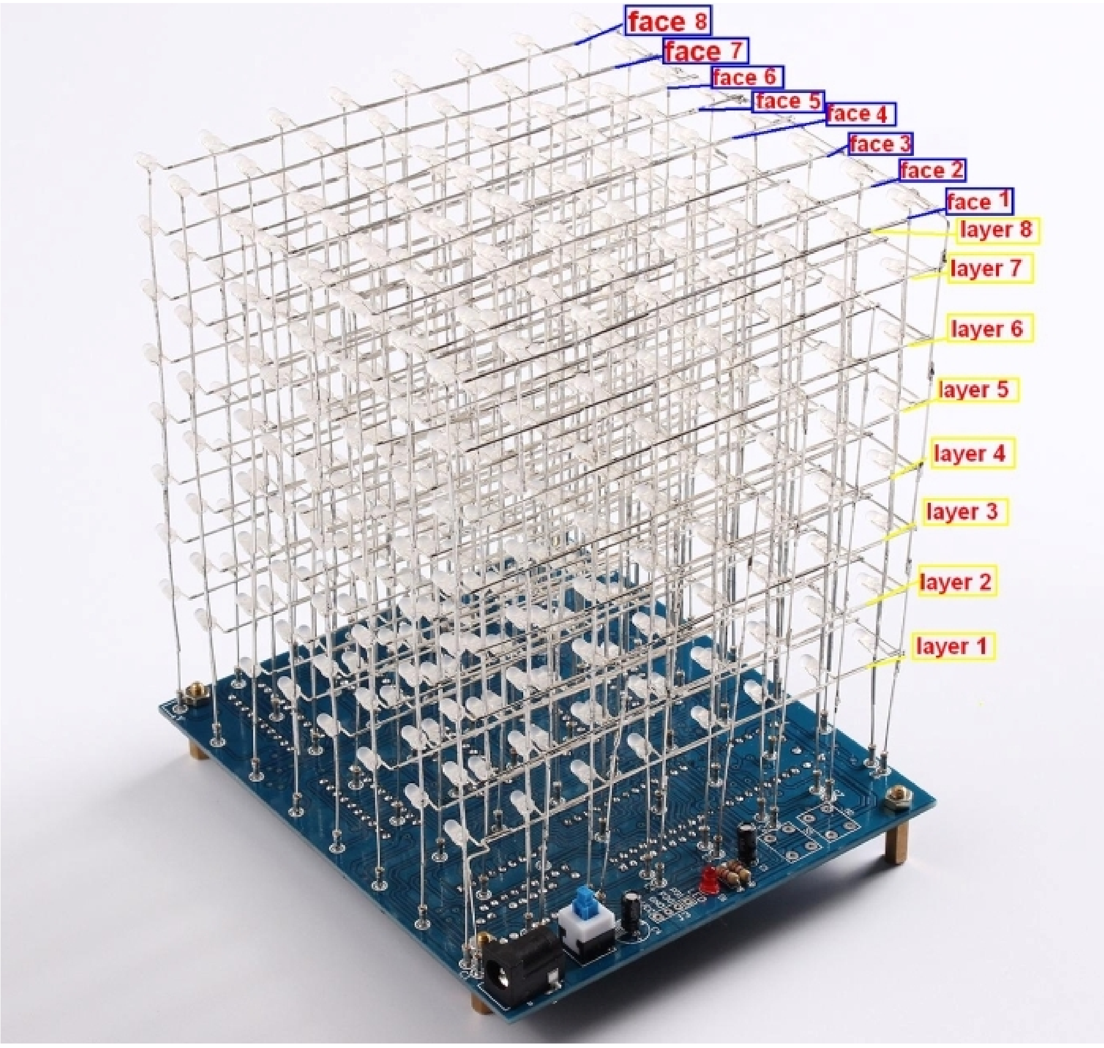
Step 13: Weld negative pin together on each layer.







Step 14: Connect layer 1~8 to C1~C8 in turn. There is a red wire in kit, but we do not use it. We use some metal pin form excess LED because we want to keep one color on this cube. You can also use red wire.



Step 15: We have completed the welding form now on. And then test it.

Some tips:

1. Your can see there are three mark on PCB have no weld component. There are switch S2 and S3, interface J3. We will not send you these components. Because we have download code to STC12C5A60S2.If you

don’t write code by yourself, these three components have no effect.

2. There are many ways welding and installation LED and we only provides a reference method. You can own approach to welding.

3. There are some picture show how to install it form network.(The components on picture has nothing to do with our product. It just to provide a reference installation)



